

Receiving Report

Date:

13/10/31

Batch No:

M27334

Supplier:

METALX CORP

Dart P/O:

21508

Packing Slip: Yes ☒ No ☐

Invoice: Yes ☐ No ☒

Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐

Waybill Attached: Yes ☐ No ☒

Shipment Complete: Yes ☒ No ☐ N/A ☐

QC6 Inspection OK 13/10/11 N/A ☐

Work Order N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

[Signature]

Production/Admin:

Date

Received/Costing

Initial

13/10/31
[Signature]

Location

Purchase Order Receipt Listing

October-31-13 9:27:44 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO21555 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Rev Date/ Rev Emp	Rev Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name	VC-MET001	Metaux Castile									
PO21555	1		M174PH- H900R0.500	f	16/10/2013 31/10/2013		12.0833	\$111.11	0.0000	0	\$134.29
CAD	No		17-4SS H900 ROUND BAR 0.500	f	12.0000 PLOU01			\$134.29	0.0000	0	
			M127334								
	2		M174PH- H900R0.625	f	16/10/2013 31/10/2013		12.6667	\$12.61	0.0000	0	\$159.70
	No		17-4 SS H900 ROUND BAR 0.625	f	12.0000 PLOU01			\$159.70	0.0000	0	
			M127334								
	3		M174PH- H900R0.750	f	16/10/2013 31/10/2013		12.0625	\$13.57	0.0000	0	\$163.68
	No		17-4 SS H900 ROUND BAR 0.750"	f	12.0000 PLOU01			\$163.68	0.0000	0	
			M127334								
	4		M174PH- H900R1.000	f	16/10/2013 31/10/2013		62.1875	\$9.73	0.0000	0	\$604.80
	No		17-4SS H900 ROUND BAR 1.00	f	60.0000 PLOU01			\$604.80	0.0000	0	
			M127334								
	5		M174PH- H900R1.500	f	16/10/2013 31/10/2013		12.1250	\$28.47	0.0000	0	\$345.17
	No		17-4SS H900 ROUND BAR 1.500	f	12.0000 PLOU01			\$345.17	0.0000	0	
			M127334								
	6		M174PH- H900R2.000	f	16/10/2013 31/10/2013		6.0000	\$47.48	0.0000	0	\$284.89
	No		17-4SS H900 ROUND BAR 2.000	f	6.0000 PLOU01			\$284.89	0.0000	0	
			M127334								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
											117.1250
											0.0000
											0.0000
											\$1,692.53
											0.0000

Total Received Quantity:
 Total Qty to Inspect (PO U/M):
 Total Reject Quantity:
 Total Receipt Value:
 Total Balance Due Quantity:

**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1915555

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN	METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	No du Bon de connaissance / BOL No
11-OCT-2013	ORIGIN	Prepaid	1915555-3

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch - MON
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N° de commande / Order No	N° de ligne / Line No	N° d'article / Item No	Description
3053708	4	14968.MO	1:0000.RD.17CR-4NI.STAINLESS.CF.SOL.TR.COND A.132.0000-156.0000 CUT TO 149.249995506 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643
N° de bon de commande / Purchase Order No	N° de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
21555		5.00 PCS	62.1875 FT

Détails / Details	SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99		
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N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièces / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS)
119234177		E8K6		5			166.0406

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These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, would be exported thereunder. Diversion contrary to US Law is Prohibited.

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 90 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 11-OCT-2013 02:56:20 PM



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit. Ce matériel a été reçu et inspecté par		Date:	Name:
Reviewed by Authorized Castle Metals Representative:			



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6060

Certificate: 804250 03 Mail To:

A.M. CASTLE AND COMPANY
1426 KENSINGTON ROAD-SUITE 220
OAK BROOK IL 60523

Ship To:

A.M. CASTLE AND COMPANY
3406 NORTH WOLF ROAD
FRANKLIN PARK IL 60131

Date: 1/22/2013 Page: 1 of 1

Steel: 630(17-4)
Finish: Cold Finish
Dia/Thk: 1.0000 in
Leg Length: 144.00 in
Corrosion:

Customer: 0032 001

NAS Order: IN 91484 1

Your Order: 197515

Item Code: 14968

PRODUCT DESCRIPTION:

AMS 2303E, AMS 5643R
Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S17400, EN 10204 3.1, ASTM A484/11
ASTM A564/10 ASME SA564-07, ASTM F899/11(CHEM ONLY)
AMS 5643R, MATCHED OK
SOLUTION ANNEALED @ 1900F MIN FOR 1 HR MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF ENFAR 252.225-7014A-1 NO DIRECTIVE
2002.95.EC.ROHS. EAF+AO+CC. NO WELD REPAIR. WELDED AND NPG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

OK 13/1/11

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BP15951	1400								

CHEMICAL ANALYSIS

CHN(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

Heat Supplier #	CH	C %	CB %	CO %	CR %	CU %	HN %	MO %	N %	NI %	P %
MSK6	US	.030	.296	.08	15.28	3.14	.79	.16	.045	4.33	.029
		S %	SI %	TA %	TI %						
		.0235	.52	.0050	.0020						

MECHANICAL PROPERTIES

1 d	HB	Ferrite	TS-900CAP	YS-900CAP	EL-900CAP	RA-900CAP	RC-900CAP	YREQ.	SEV.
o i	No.	%	KSI	KSI	%	%	No.	No.	No.
BP15951	RL	320.0	.01	200.25	178.56	15.43	50.90	44.0	.2500
									.1810

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Mgr.

[Signature]

ERIC HESS



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1915555

Expédié de / Ship From: MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	Vendu à / Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Expédié à / Ship To: DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN	Livré à / Deliver To: METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA
Date d'expédition / Date Shipped 11-OCT-2013	F.O.B. ORIGIN	Modalités de transport / Freight Terms Prepaid	Transporteur / Carrier LOCAL_FLEET
		No du Bon de connaissance / BOL No 1915555-3	

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch - MON
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N° de commande / Order No 3053708	N° de ligne / Line No 6	N° d'article / Item No 14981.MO	Description 2.0000.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 CUT TO 36 IN (+ .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99
N° de bon de commande / Purchase Order No 21555	N° de pièces / Part Number	Qté commandée / Ordered Qty 2.00 PCS	Qté Facturée / Invoice Qty 6.0000 FT

Détails / Details SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99			
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N° de livraison / Delivery No : 119239209	Usine / Mill F1M4	No de coulée / Heat Number F1M4	Code méc / Mech Id 2	Pièces / PCS 2	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS) 64.0779
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Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport

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12/3/13



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BORDEREAU DE MARCHANDISES

Page 2 of 2

containing aux lois des Etats-Unis est interdite. These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Ce matériel a été reçu et inspecté par Reviewed by Authorized Castle Metals Representative:	Date: Name:



6870 HIGHWAY 42 EAST

Certificate: 818840 2
Customer: 000032 996

Mail To:
A.M. CASTLE AND COMPANY
CUSTOMER PICKUP
801 TWIN RAIL DRIVE
MUSKOGEE, IL 60447

SHIP TO:

A.M. CASTLE AND COMPANY
CUSTOMER PICKUP
801 TWIN RAIL DRIVE
MUSKOGEE, IL 60447

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

Date: 3/15/2013 Page: 1

Steel: 630(17-4)

Finish: ST

Corrosion:

NAS Order: IN 0164193 01

14981

PRODUCT DESCRIPTION:

AMS 2303E, AMS 5613R, MACRO OR
Round Bar, Annealed, Smooth Turned, Cold Finished
THIS 817400, EN 10204 3.1. ASTM A484/11
ASTM A564/10 ASME SA564-07, ASTM F899/11 (CHEM ONLY)
SOLUTION ANNEALED @ 1900F MIN FOR 1 HR MIN

REMARKS:

COMPLIES WITH REQUIREMENTS OF DFM 252.225-7014A-1 ED DIRECTIVE
2002.95.EC.ROHS. ZAP+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

one 13/4/11

Product Id	Slid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BF2144 5		2.0000		1.074		144.00	2	1 14981

CHEMICAL ANALYSIS

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CB %	CO %	CR %	CU %	NI %	NO %	N %	NI %
US		.0259	.2085	.0805	15.1855	3.3855	.8345	.1265	.0331	4.2020
Castle Metals FF										
HEAT NUMBER	F1714									
MECHANICAL ID	14981									

MECHANICAL PROPERTIES

Product Id	1 d	0 1	ES	Partic	TS-900	YS-900	EL-900	RA-900	RC-900	FREQ	SEV.
BF2144 5											
	R L	363.00	.30	205.05	180.28	23.60	49.11	41.50	.09	.08	
SPECIFICATION											
LOS N											
COMMENT											
APPROVED											

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ERIC HESS

3/15/2013

Conf
13/11/11

Castle Metals FP
HEAT NUMBER FIM4
MECHANICAL ID _____
ITEM CODE 14981
LOT NUMBER _____
PO NUMBER 2 (690)
RECEIPT DATE 3-18-13
SUPPLIER NAS
SPECIFICATION _____
LCS N
COMMENT _____
APPROVED h



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1915555

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN	METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier
11-OCT-2013	ORIGIN	Prepaid	LOCAL_FLEET
No du Bon de connaissance / BOL No		1915555-3	

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch - MON
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N° de commande / Order No	N° de ligne / Line No	N° d'article / Item No	Description
3053708	5	14976.MO	1.5000.RD/17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 CUT TO 145.5 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643
N° de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté facturée / Invoice Qty
21555		1.00 PCS	12.1250 FT

Détails / Details	SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99			
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N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code mec / Mech Id	Pièce s / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS)
119239221		742285		1			72.8713

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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

for credit					
Ce matériel a été revu et inspecté par					
Reviewed by Authorized Castle Metals Representative:					
		Date:		Name:	

CERTIFICATE OF TESTS

ARNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

CERT SERIAL# 000804279


TALLEY METALS
 A Carpenter Company

 Talley Metals Technology, Inc.
 205 Talley Metals Lane

MoBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

01/30/12

CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEURPAGE 1 OF 2

 A.M. CASTLE & CO
 3400 N WOLF RD
 FRANKLIN PARK, IL 60131

TALLEY METALS TECH, INC.

 ACCOUNTS PAYABLE
 P. O. BOX 2498
 HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
156895-004	TLY990401 L14210	01/30/12	4678.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

742285

UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH

SPECIFICATION: TALLEY 174-T1A CAP OF H900 (01/11/99)

AMS 2303 REV F (08/10)

AMS 2315 REV F (01/08)

AMS 5643 REV R (02/08)

ASTM-A484-11

ASTM-A564-10

ASME-SA564 2011 EDITION (TYPE 630)

ASTM-F899-11 (CHEM ONLY)

SIZE 1.500000 IN. (38.10 MM) RD BAR

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN (XRF)	SI (XRF)	P (XRF)	S (COM)	CR (XRF)
0.030	0.84	0.39	0.017	0.023	15.16
NI (XRF)	MO (XRF)	CU (XRF)	N (FUS)	CB (XRF)	TA (XRF)
4.24	0.15	3.57	0.030	0.25	LT .02

CB+TA

0.27

 THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES
 THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS
 OPERATIONS QUALITY PROGRAM MANUAL REVISION 30, DATED 09/28/11.

MILL HEAT TREATMENT:

TYPE

SOL ANL

TEMP

1900F (1037C)

TIME (CONT FCE)

1.08 HOURS

QUENCH

AIR



DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HBW

347

(MIDRADIUS)

MAGNETIC PARTICLES:

FREQUENCY = 0 / SEVERITY = 0

UNKNOWN

MICROSTRUCTURE - FERRITE - NONE

CONTINUED ON NEXT PAGE

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pg. 1052

CERTIFICATE OF TESTS
CERT SERIAL# 000804279
ABNAHMEPRUEFZEUGNIS
CERTIFICAT DE CONTROLE

TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
205 Talley Metals Lane
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

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01/30/12

CUSTOMER/BESTELLER/CLIENT

SELLER/VERKAUFER/VENDEUR PAGE 2 OF 2

A.M. CASTLE & CO
3400 N WOLF RD
FRANKLIN PARK, IL 60131

TALLEY METALS TECH, INC.

ACCOUNTS PAYABLE
P. O. BOX 2498
HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
156895-004	TLY990401 L14210	01/30/12	4678.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:
CAPABILITY

742285

UNS NUMBER S17400

900 F (482 C), 01 HR

AIR COOL

(T) RANSVERSE (L) LONGITUDINAL
YIELD STRENGTH, (0.20 %) KSI (MPA)
TENSILE STRENGTH, KSI (MPA)
ELONGATION IN 2.00", %
REDUCTION OF AREA, %
HARDNESS, HBW

L
182.0 1255
203.0 1400
15.0
47.0
403.0

(CONVERTED FROM TENSILE STRENGTH)

NO WELD REPAIR PERFORMED

MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A. MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009. THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN50049)

STEPHANIE E. MCCULLUM
QUALITY ASSURANCE ENGINEER
CARPENTER TECHNOLOGY CORPORATION

5669 AMC 3174-112


Heat code 14976
Heat 742285

Pg. 2 of 2

Stephanie E. McCullum



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 1915555

Expédié de / Ship From: MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Vendu à / Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Expédié à / Ship To: DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN		Livré à / Deliver To: METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA			
Date d'expédition / Date Shipped 11-OCT-2013		F.O.B. ORIGIN		Modalités de transport / Freight Terms Prepaid		Transporteur / Carrier LOCAL_FLEET		No du Bon de connaissance / BOL No 1915555-3	

Détails d'expédition / Shipment Details		Destination finale / Final Destination Branch - MON	
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N° de commande / Order No 3053708		N° de ligne / Line No 3		N° d'article / Item No 14966.MO		Description 0.7500.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0080-156.0000 CUT TO 144.75 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643	
N° de bon de commande / Purchase Order No 21555		Nbre de pièces / Part Number		Qté commandée / Ordered Qty 1.00 PCS		Qté facturée / Invoice Qty 12.0625 FT	
Détails / Details SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99							

N° de livraison / Delivery No : 119239133		Usine / Mill		No de coulée / Heat Number G20683		Code mec / Mech Id		Pièces / PCS 1		Largeur (Pouce) / Width (IN)		Longueur (Pouce) / Length (IN)		Qté expédiée / Shipped Qty(LBS) 18.0938	
<small>Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'Etat des Etats-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des Etats-Unis est interdite. These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, are subject to US Law. Any modification of the contract of transport contrary to US Law is prohibited. Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit. We hereby certify the material covered by this certification conforms to the applicable specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.</small>															



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

for credit.					
Ce matériel a été reçu et inspecté par					
Reviewed by Authorized Castle Metals Representative:			Date:	Name:	

cmf 13/11/11

Castle Metals FP

HEAT NUMBER G 20683
MECHANICAL ID _____
ITEM CODE 14966
LOT NUMBER _____
PO NUMBER 231276
RECEIPT DATE 9-16-13
SUPPLIER TAILEY
SPECIFICATION _____
LCS NO
COMMENT _____
APPROVED PL

CERTIFICATE OF TESTS
CERT SERIAL# 000891223

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
 205 Talley Metals Lane
 McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

09/13/13

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

AM CASTLE & CO

3400 N WOLF RD
 FRANKLIN PARK IL 60131

HVL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
231276	W83528	09/13/13	1998.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:

G20683

UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH
 PART NUMBER: IAC 14966

SPECIFICATION: CASTLE 3174-03 REV 25 (08/18/11)

AMS 2303 REV F (08/ /10)

AMS 5643 REV R (02/ /08) (UNS S17400) (AISI 630)

ASTM-A564-10

ASME-SA564 2011 EDITION

SIZE 0.750000 IN. (19.05 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.03	0.78	0.34	0.023	0.024	15.21
NI(XRF)	MO(XRF)	CU(XRF)	N (FUS)	CB(XRF)	TA(XRF)
4.32	0.35	3.80	0.027	0.24	LT .01

CB+TA
 0.25

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES
 NO WELD REPAIR.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE
 CONTAMINATION.

EDDY CURRENT TEST PERFORMED

HOT REDUCTION RATIO = 14:1

MILL HEAT TREATMENT:

TYPE SOL ANL
 TEMP 1900F (1037C)
 TIME (BATCH FURNACE) 1.30 HOURS
 QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED 294HBW (31HRC)

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE 1.20%

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
 Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.
 Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

CERTIFICATE OF TESTS
CERT SERIAL# 000891223

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
205 Talley Metals Lane
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

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09/13/13

CUSTOMER/BESTELLER/CLIENT

SELLER/VERKÄUFER/VENDEUR PAGE 2 OF 2

AM CASTLE & CO

3400 N WOLF RD
FRANKLIN PARK IL 60131

HVL

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
231276	W83528	09/13/13	1998.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE :
CAPABILITY

G20683

UNS NUMBER S17400

900 F (482 C), 01 HR

AIR COOL

HARDNESS

421HBW (45HRC)

09/13/11

(T)RANSVERSE (L)ONGITUDINAL
YIELD STRENGTH, (0.20 %) KSI(MPA)
TENSILE STRENGTH, KSI(MPA)
ELONGATION IN 1.40", %
REDUCTION OF AREA, %

203.0 (1400)
207.0 (1427)
11.0
52.0

NO WELD REPAIR PERFORMED
MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.

THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

STEPHANIE E. MCCULLUM
QUALITY ASSURANCE ENGINEER
CARPENTER TECHNOLOGY CORPORATION

Stephanie E. McCullum

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die angegebenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

00113

No de Formulaire d'Emballage / Shipment No: 1915555

Page 1 of 2

Expédié de / Ship From:		Vendu à / Sold To:		Expédié à / Ship To:		Livré à / Deliver To:	
MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CAN		METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms		Transporteur / Carrier	No du Bon de connaissance / BOL No		
11-OCT-2013	ORIGIN	Prepaid		LOCAL_FLEET	1915555-3		

Détails d'expédition / Shipment Details		Destination finale / Final Destination Branch - MON	
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N° de commande / Order No	N° de ligne / Line No	N° d'article / Item No	Description
3053708	2	14963.MO	0.6250.RD.17CR-4NI.STAINLESS.CF.SOL.TR.COND A.132.0000-156.0000 CUT TO 151.999961538 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS 5643

N° de bon de commande / Purchase Order No	N° de pièces / Part Number	Qté commandée / Ordered Qty	Qté facturée / Invoice Qty
21565		1.00 PCS	12.6667 FT

Détails / Details			
SHIP TO METCOR END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99			

N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièce s / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS)
119241047		SD0980-G14		1			13.1733

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'Etat des Etats-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des Etats-Unis est interdite.
These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, worldwide export controls. Diversion contrary to US Law is Prohibited.
Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera réglée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.
Date Printed: 11-OCT-2013 02:56:20 PM



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.			
Ce material a été revu et inspecté par		Date:	
Reviewed by Authorized Castle Metals Representative:		Name:	

GLORIA GROUP **GLORIA MATERIAL TECHNOLOGY CORP.**
INSPECTION CERTIFICATE

台南市新營區新中路35號
NO.35,HSIN CHUNG RD.,HSIN YING,
TAINAN,TAIWAN
TEL:886-6-6520031
FAX:886-6-6520088

Messrs: ENERGY STEEL PRODUCTS INC.
Order No: 2013004062
FILE NO: 2013004256-B
Grade: 17-4 PH / 630
Size: 0.625"
HEAT-Lot No: SD0980-G14
Condition: HR-Solution Annealed-Ground

P.O.NO.: PU2659
Date: 07/30/2013
Weight: 658.0KG 1450.64LB
P'cs: 112

6. ULTRASONIC TEST IS ACCEPTABLE PER ASTM A388/ A388M-11.
7. MATERIAL IS FREE FROM RESIDUAL RADIOACTIVITY.
8. CAPABILITY MECHANICAL PROPERTIES TESTED AS PER H900 CONDITION.
9. COUNTRY OF ORIGIN: TAIWAN.
10. ROLLING RATIO: 7.5:1..

ml 13/10/11

Castle Metals FP
HEAT NUMBER SD0980-614
MECHANICAL ID _____
ITEM CODE 14963
LOT NUMBER _____
PO NUMBER 244324
RECEIPT DATE 9-30-13
SUPPLIER ESP
SPECIFICATION _____
LCS Y6D
COMMENT _____
APPROVED DL



Mars Wang
QA SECTION
Mars Wang
Page 3 of 3

Our quality and environment management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OH&S, and NADCAP. We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification. Inspection Certificate comply with EN 10204 3.1.

GLORIA GROUP **GLORIA MATERIAL TECHNOLOGY CORP.**
INSPECTION CERTIFICATE

台南市新營區新中路85號
NO.85,HSIN CHUNG RD.,HSIN YING,
TAINAN,TAIWAN
TEL:886-6-6520031
FAX:886-6-6520088

Messrs: ENERGY STEEL PRODUCTS INC.
Order No: 2013004062
FILE NO: 2013004256-B
Grade: 17-4 PH / 630
Size: 0.625"
HEAT-Lot No: SD0980-G14
Condition: HR-Solution Annealed-Ground

P.O.NO.: P02659
Date: 07/30/2013
Weight: 658.0KG 1450.64LB
P'cs: 112

Chemical Composition (wt%)							
	C	Si	Mn	P	S	Ni	Cr
Min.						3.0	15.0
Max.	0.07	1.00	1.00	0.040	0.030	5.0	17.5
Result	0.02	0.47	0.65	0.029	0.001	4.3	15.1
	Mo	Cu	Co	Nb+Ta	N	Nb	Ta
Min.		3.0		0.15		5C	
Max.	0.5	5.0		0.45		0.45	
Result	0.2	3.4	0.055	0.22	0.018	0.22	0.0016

Mechanical Properties Spec.

	Hardness	Grain Size	Delta-Ferrite
	1/2R	ASTM E112 T	AMS 2315 L
Spec.Min.			
Spec.Max.	363HBW		5%
Result	322HBW	7.5	0.3%

	H900 Hardness(Ave)
	H900
	1/2R L
Spec.Min.	40HRC
Spec.Max.	47HRC
Result	43HRC

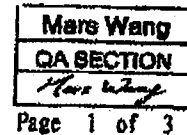
Macro Etching

	MACRO ETCH	MACRO ETCH
	ASTM E381	ASTM E381
	B	T
Spec.		
Result	S-2,R-2,C-2	S-2,R-2,C-2

QML 13/11/11

9/4/13

JA



Our quality and environment management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OHS&S, and NADCAP. We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification. Inspection Certificates comply with EN 10204 3.1.

1C- 14963



GLORIA MATERIAL TECHNOLOGY CORP. GROUP INSPECTION CERTIFICATE

台南市新營區新中路35號
NO.35,HSIN CHUNG RD.,HSIN YING,
TAINAN,TAIWAN
TEL:886-6-6520031
FAX:886-6-6520088

Messrs: ENERGY STEEL PRODUCTS INC.

Order No: 2013004062

FILE NO: 2013004256-B

Grade: 17-4 PH / 630

Size: 0.625"

HEAT-Lot No: SD0980-G14

Condition: HR-Solution Annealed-Ground

P.O.NO.: P02659

Date: 07/30/2013

Weight: 658.0KG 1450.64LB

P'cs: 112

Tensile Test

	Elongation(A)	Tensile Strength(Rn)	Yield Strength(0.2% Rp)	Reduction of Area(Z)
	H900	H900	H900	H900
	1/2R L	1/2R L	1/2R L	1/2R L
	(Ave)	(Ave)	(Ave)	(Ave)
Unit	%	KSI	KSI	%
Min.	10	190	170	40
Max.				
Result	15	205	182	49

[Signature]
13/11/11

Heat Treatment Condition

Condition	Temperature	Time/hour	Treatment
SOLUTION	1900°F	1.0001	FAST COOLING TO BELOW 90 DEGREE F

Non-Metallic Inclusions :AMS 2303E

	Severity	Frequency
Seat		
Max.	0.35	0.4
Result	0	0

Specification:

1. ASTM A370-12.
2. ASTM A484/ A484M-12.
3. ASTM A564/ A564M-10.
4. ASTM A388/ A388M-11.
5. ASTM E112-10.
6. AMS 5643R.
7. AMS 2303F (Mag particle test).
8. ASME SA564/ SA564M.
9. ASME SA484/ SA484M.
10. EN 10204 3.1.
11. ENERGY SPEC. SS1. REV.5.1 OCT. 1 2011.

Remark:

1. MANUFACTURING PROCESS: BAF+LHF+VOD, FORGED OR HOT ROLLED.
2. SOLUTION TREATMENT AT 1900 DEGREE F, FAST COOLING TO BELOW 90 DEGREE F.
3. MATERIAL IS FREE FROM KNOWN CONTACT WITH MERCURY AND RADIUM.
4. MACRO/ MICRO STRUCTURE OK.
5. MATERIAL IS FREE FROM WELDS OR WELDING REPAIRS.



Mars Wang
QA SECTION
[Signature]
Page 2 of 3

Our quality and environment management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OH&S, and NADCAP. We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification. Inspection Certificate comply with EN 10204 3.1.



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No: 19155555

Expédié de / Ship From: MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	Vendu à / Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Expédié à / Ship To: DART AEROSPACE LTD 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN	Livré à / Deliver To: METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA
Date d'expédition / Date Shipped 11-OCT-2013	F.O.B. ORIGIN	Modalités de transport / Freight Terms Prepaid	Transporteur / Carrier LOCAL_FLEET
		No du Bon de connaissance / BOL No 1915555-3	

Détails d'expédition / Shipment Details		Destination finale / Final Destination Branch - MON
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N° de commande / Order No 3053708	N° de ligne / Line No 1	N° d'article / Item No 14961.MO	Description 0.5000.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.144.0000 CUT TO 145.00005988 IN () - CUT IN 4TH'S SPECIFICATIONS: AMS-5643
N° de bon de commande / Purchase Order No 21555	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
		1.00 PCS	12.0833 FT

Détails / Details SHIP TO METCOR END USER: DART AEROSPACE END USER: COMMERCIAL AIRCRAFT PARTS ECCN # EAR99	Qté commandée / Ordered Qty 1.00 PCS
---	--

N° de livraison / Delivery No : 119241047	Usine / Mill	No de coulée / Heat Number G20408	Code méc / Mech Id PCS	Pièce s / PCS 1	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS) 8.0717
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Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'Etat des Etats-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des Etats-Unis est interdite.
These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, require export thereunder. Diversion contrary to US Law is prohibited.
Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera réglée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned.	
Ce matériel a été reçu et inspecté par	Date:
Reviewed by Authorized Castle Metals Representative:	Name:

HEAT NUMBER 6 20708
MECHANICAL ID 14961
ITEM CODE 14961
LOT NUMBER 208722
PO NUMBER 5-6-13
RECEIPT DATE 1/9/14
SUPPLIER
SPECIFICATION
LCS
COMMENT
APPROVED

13/1/14

Castle Metals FP

CERTIFICATE OF TESTS
CERT SERIAL# 000872595

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
205 Talley Metals Lane
McBee, SC, 29101 Tel: (610) 208-2000 (800) 338-4592

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

05/03/13
CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 1 OF 2

AM CASTLE & CO

CARPENTER TECHNOLOGY CORP

3400 N WOLF RD
FRANKLIN PARK IL 60131

101 W. BERN STREET
READING, PA 19601

CUSTOMER ORDER NO. / BESTELL-NR. / N° DE COMMANDE	CARPENTER NO. / MERKS-NR. / N° DE REFERENCE INTERNE	DATE / DATUM / DATE	WEIGHT / GEWICHT / POIDS
208422	W73951	05/03/13	1792.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: G20408 UNS NUMBER S17400

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH
----- PART NUMBER: IAC 14961

SPECIFICATION: CASTLE 3174-01 CAP OF COND. H900 REV 33 (08/18/11)
----- AMS 2303 REV F (08/ /10)
AMS 5643 REV R (02/ /08) (UNS S17400) (AISI 630)
ASTM-A564-10
ASME-SA564 2011 EDITION

SIZE 0.500000 IN. (12.70 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.03	0.80	0.36	0.021	0.025	15.20
NI(XRF)	MO(XRF)	CU(XRF)	N (FUS)	CB(XRF)	TA(XRF)
4.15	0.35	3.70	0.031	0.22	LT .01

CB+TA
0.23

THIS HEAT MELTED BY THE ELECTRIC ARC/AOD PROCESSES
NO WELD REPAIR.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM AND ALPHA SOURCE
CONTAMINATION.

EDDY CURRENT TEST PERFORMED

HOT REDUCTION RATIO = 81:1

MILL HEAT TREATMENT:

TYPE SOL ANL
TEMP 1900F (1037C)
TIME (BATCH FURNACE) 1.30 HOURS
QUENCH WATER

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED 311HBW (33HRC)

TENSILE STRENGTH, KSI(MPA) 148.0(1020)
ELONGATION IN 2.00", % 13.0
REDUCTION OF AREA, % 54.0

MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

MICROSTRUCTURE - FERRITE .74%

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.
Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.

CERTIFICATE OF TESTS
CERT SERIAL# 000872595

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
 205 Talley Metals Lane
 McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

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05/03/13

CUSTOMER / BESTELLER / CLIENT

SELLER / VERKÄUFER / VENDEUR PAGE 2 OF 2

AM CASTLE & CO

CARPENTER TECHNOLOGY CORP

3400 N WOLF RD
 FRANKLIN PARK IL 60131

101 W. BERN STREET
 READING, PA 19601

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
208422	W73951	05/03/13	1792.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEUR:
CAPABILITY

G20408

UNS NUMBER S17400

900 F(482 C), 01 HR

AIR COOL

Conf 13/11/11

HARDNESS

421HBW (45HRC)

(T)RANSVERSE (L)ONGITUDINAL
 YIELD STRENGTH, (0.20 %) KSI(MPA) 207.0(1427)
 TENSILE STRENGTH, KSI(MPA) 207.0(1427)
 ELONGATION IN 1.99", % 15.0
 REDUCTION OF AREA, % 49.0

NO WELD REPAIR PERFORMED
 MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DEARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DEARS REQUIREMENTS DEARS 252.225-7008 AND 252.225-7009.

THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS.

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

TIMOTHY DUVAL
 QUALITY ASSURANCE REP.
 CARPENTER TECHNOLOGY CORPORATION

Timothy M. Duvall

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representation or certification to other parties.
 Die vorliegende Zertifizierung ist nur für den in diesem Formular genannten Kunden gültig. Carpenter übernimmt gegenüber Dritten keinerlei Haftung für die ausgewiesenen Daten oder Zertifizierungen.
 Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21555**

Purchase Order Date 10/2/2013

PO Print Date 10/2/2013

Page Number 1 of 3

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
10/3/10/03

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
----------	--	------------------------	--------------------------------------	----	--------------------------------	---------------	----------------

1	M174PH-H900R0.500	17-4SS H900 ROUND BAR 0.500	10/16/2013 Yes 10/16/2013		12.00 f 120833	\$11.45	\$137.40
---	-------------------	--------------------------------	---------------------------------	--	-------------------	---------	----------

MATERIAL: 17-4 PH COND. H900
AS PER AMS.5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

Line Total: \$137.40

2	M174PH-H900R0.625	17-4 SS H900 ROUND BAR 0.625	10/16/2013 Yes 10/16/2013		12.00 f 126667	\$12.99	\$155.88
---	-------------------	---------------------------------	---------------------------------	--	-------------------	---------	----------

AS ABOVE

Note:

10/2/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21555**

Purchase Order Date 10/2/2013

PO Print Date 10/2/2013

Page Number 2 of 3

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Total: **\$155.88**

3	M174PH-H900R0.750	17-4 SS H900 ROUND BAR 0.750"	10/16/2013	12.00	12.00	\$13.98	\$167.76
			Yes		f		
			10/16/2013				
	AS ABOVE						

Line Total: **\$167.76**

4	M174PH-H900R1.000	17-4SS H900 ROUND BAR 1.00	10/16/2013	60.00	60.00	\$10.02	\$601.20
			Yes		f		
			10/16/2013				
	AS ABOVE						

Line Total: **\$601.20**

5	M174PH-H900R1.500	17-4SS H900 ROUND BAR 1.500	10/16/2013	12.00	12.00	\$29.33	\$351.96
			Yes		f		
			10/16/2013				
	AS ABOVE						

Note:

10/2/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21555**

Purchase Order Date 10/2/2013

PO Print Date 10/2/2013

Page Number 3 of 3

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

6	M174PH-H900R2.000	17-4SS H900 ROUND BAR 2.000	10/16/2013	6.00	✓	\$48.92	\$293.52
			Yes 10/16/2013	f			
AS ABOVE							

Line Total: \$351.96

Line Total: \$293.52

PO Total: \$1,707.72

10/3/10/31

CL U

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES NO

PST# 6122-5207

Change Nbr:

1

Change Date: 10/2/2013

Page 1 of 1

All amounts are calculated in domestic currency.

All Item ID/GL/WOs	All Rec. Employees	All Currencies

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MET004	Mettcor Inc.								
PO21559	1		71475-25	Each	10/31/2013	11/7/2013	1.0000	\$544.56	0.0000	0	\$544.56
CAD	No		HEAT TREAT H900		1.0000	LAVO01		\$544.56	0.0000	0	
			127333								
								Total Received Quantity:			1.0000
								Total Qty to Inspect (PO U/M):			0.0000
								Total Reject Quantity:			0.0000
								Total Receipt Value:			\$544.56
								Total Balance Due Quantity:			0.0000

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
190288	1	75964

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
PO21559		17-4PH	2013/10/16	tst

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
----------------------	-------------------------	--------------------------------	---	-----------------

38 71475-25

(1) ROUND BAR
REFERENCE 71425-25

336,

CONTENANT: 1 BOÎTE DE BOIS

143/1431

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
BOITE DE BOIS	1	

CERTIFICAT

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 38

POIDS EXPÉDIÉ / Weight Shipped : 336,00

QUANTITÉ RESTANTE / Quantity Remaining : 0

POIDS RESTANT / Weight Remaining : 0,00

CERTIFICAT

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 38

POIDS EXPÉDIÉ / Weight Shipped : 336,00

Signature:

Date:

EXPÉDIÉ LE / Shipped On : 2013/10/25

560, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8
Tél. 450 473-1884
Télécopieur/Fax administration 450 491-5498
Télécopieur/Fax production 450 491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
190288	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO21559		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 2759/3 REV.E

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	38	44.0 - 48.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
38	338	71475-25 (1) ROUND BAR REFERENCE 71425-25 CONTENANT: 1 BOÎTE DE BOIS

COMMENTAIRES / comments

25/10/2013

CERTIFIÉ par / Certified by:

DATE: 2013-10-25



METCOR INC.

560 BOUL. ARTHUR-SAUVÉ

ST-EUSTACHE, QC, J7R 5A8

Tel.: 450 473-1884 / Téléc. / Fax : 450 491-5498

Certificat de Conformité Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
190288	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po.	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO21559		17-4PH		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications				
AGE HARDEN CONDITION H 900 SAE AMS 2759/3 REV.E				
EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results	
HARDNESS	40 - 47 HRC	38	44.0 - 46.0 HRC	
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
38	336	71475-25 (1) ROUND BAR REFERENCE 71425-25 CONTENANT: 1 BOÎTE DE BOIS		

COMMENTAIRES / comments

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec AMS2759.

Le TT a été fait tel que requis par AMS2759 et toutes les vérifications et les tests demandés ont été faites et documentés.

Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec AMS2759 et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of AMS2759.

All HT operations were in compliance with AMS2759 and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with AMS2759 and the purchase order and was found to meet the requirements.

CERTIFIÉ par / Certified by:

Isabel Ota



DATE: 2013-10-25



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21559**

Purchase Order Date 10/2/2013

PO Print Date 11/7/2013

Page Number 1 of 1

Order From :

VC-MET004

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

METCOR INC.
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC J7R 5A8
CA

REVISED
\$

Contact Name

Buyer

Chantal Lavoie

Vendor Phone

450 473 1884

Customer POID

Customer Tax #

10127-2607

Ship To Contact

Terms

Net 30

Ship To Phone

Currency

CAD

Ship Via:

TST ground

FOB

Destination-Collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
----------	---	------------------------	--------------------------------------	----	--------------------------------	---------------	-------------------

1	71475-25	HEAT TREAT H900	10/31/2013 Yes 11/8/2013		1.00 Each	\$567.84	\$567.84
	17-4 PH ROUND BAR SENT FROM METAUX CASTLE P/O:21555 FINISH: HEAT TREAT TO COND H900 FTY IN EXCESS OF 170KSI FTU IN EXCESS OF 190KSI PER AMS2759/3						

PLEASE ADVISE PRICE \$\$\$\$\$\$ FOR LOT OF MATERIAL

Line Total: \$567.84

PO Total: \$567.84

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required ☒ YES ☐ NO

PST# 6122-5207

Change Nbr:

3

Change Date: 11/7/2013